

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An internet protocol (IP) telephone, comprising:

an input connector for receiving from a network a signal containing a digital component and a current component;

a separator for separating said current component from said digital component;

telephone circuitry for providing audio input and output;

a central processing unit (CPU) for controlling said IP telephone operations of said telephone circuitry to cause said telephone circuitry to provide said audio input and output;

and

a power source circuit for receiving said current component from said separator, said power source circuit comprising:

an input current limiting resistor for limiting said current component;

a direct-current to direct-current (DC/DC) converter that is connected to said input current limiting resistor; ~~and~~

an input capacitor that is charged by said current component; and

limit removing means for removing the limitation imposed by said input current limiting resistor when said limit removing means is turned on;

wherein said CPU is configured to determine an amount of power being consumed by said CPU; and

wherein said CPU is configured to turn said limit removing means on or off based on the determined amount of power being consumed by the CPU.

2. (Previously Presented) The IP telephone in accordance with claim 1, said power source circuit further comprising an input voltage sensor circuit for monitoring an input voltage to said DC/DC converter, an output from said DC/DC converter being delayed according to a result of the monitoring by said input voltage sensor circuit.

3. (Previously Presented) The IP telephone in accordance with claim 1, wherein said input capacitor has a capacity of about 100 μ F.

4. (Previously Presented) The IP telephone in accordance with claim 2, wherein said input capacitor has a capacity of about 100 μ F.

5. – 8. (Cancelled)

9. (Currently Amended) The IP telephone in accordance with claim-~~5~~1, wherein said limit removing means is a switching transistor connected in parallel with said input current limiting resistor.

10. (Currently Amended) The IP telephone in accordance with claim-~~6~~2, wherein said limit removing means is a switching transistor connected in parallel with said input current limiting resistor.

11. (Currently Amended) The IP telephone in accordance with claim-~~7~~3, wherein said limit removing means is a switching transistor connected in parallel with said input current limiting resistor.

12. (Currently Amended) The IP telephone in accordance with claim-~~8~~4, wherein said limit removing means is a switching transistor connected in parallel with said input current limiting resistor.

13. – 16. (Cancelled)

17. (Currently Amended) The IP telephone in accordance with claim 9, wherein said CPU determines control timing for turning said switching transistor on or off based on the determined amount of power being consumed by the CPU.

18. (Currently Amended) The IP telephone in accordance with claim 10, wherein said CPU determines control timing for turning said switching transistor on or off based on the determined amount of power being consumed by the CPU.

19. (Currently Amended) The IP telephone in accordance with claim 11, wherein said CPU determines control timing for turning said switching transistor on or off based on the determined amount of power being consumed by the CPU.

20. (Currently Amended) The IP telephone in accordance with claim 12, wherein said CPU determines control timing for turning said switching transistor on or off based on the determined amount of power being consumed by the CPU.

21. (Previously Presented) The IP telephone in accordance with claim 1, wherein said input capacitor is charged by said current component through said input current limiting resistor upon power-up of said IP telephone.

22. (New) The IP telephone in accordance with claim 1, wherein said telephone circuitry comprises:

- a microphone for providing said audio input; and
- a speaker for providing said audio output.

23. (New) The IP telephone in accordance with claim 1, wherein said CPU is configured to control said telephone circuitry to achieve telephone calling and dialing operations.

24. (New) The IP telephone in accordance with claim 1, further comprising:

a transmitter circuit for receiving said digital component of said signal from said separator;

wherein said CPU is configured to communicate with said network through said transmitter circuit.

25. (New) A method for controlling a current that is input to a direct-current to direct-current (DC/DC) converter, said DC/DC converter supplying an output voltage to a device, said method comprising:

providing a limitation on said current input to said DC/DC converter;

determining an amount of power being consumed by said device; and

removing said limitation on said current input to said DC/DC converter when the determined amount of power being consumed by said device is greater than a threshold amount.

26. (New) The method of claim 25, wherein said device is a CPU.